

MEMO

TO: File 63-33422 Gem State Academy
FROM: Sandy Hemenway
DATE: 10/13/2010
REF: Review for Licensing

The Permit for 63-33185 which was split into 63-33422 and 63-33423, was approved on 2/4/2010, for 6.0 acres and 0.12 cfs. The purpose for the original permit was to add on 6-acres irrigation that was not included in License 63-7202. Proof was due on or before 2/1/2011. **Proof of Beneficial Use** was received by IDWR on 6/28/2010, for 6.0 acres and 0.12 cfs.

The two splits consist of the following: 63-33422 is for irrigation 4.0 acres, and 0.08 cfs, and 63-33423 is for irrigation of 1.5 acres, and 0.03 cfs (an amendment for license for 63-33423 will deal with change and addition of a POD, overlapping the PODs with 63-11308). There is **no change of ownership issues**, since all property remains owned by the Idaho Conference of Seventh Day Adventists, Inc./Gem State Academy (Tax Lot information updated 8/2/2009, showing same information).

Field Report Narrative

63-33185 is split into 63-33422 (referred to as 63-33185 Part A in the 4/6/2010 field exam) and 63-33423 (referred to as 63-33185 Part B). On 4/6/2010, a Field Exam was conducted by Terry Scanlan, of SPF Engineering. **For 63-33422**, the system consists of a Groundwater source (same source as 63-7202), with 13-inch casing, 368 ft. deep, US 100 Hp motor CDJ313147, Layne and Bowler pump 44829, and 8-inch discharge. No physical measurement was taken at the time of the field exam, but rather the measurement taken from the 7/28/1972 field exam for 63-7202, conducted by IDWR measuring 1000 gallons in 67 seconds (from a Badger Meter) was utilized. Two separate systems supply irrigation water to the permitted acres. 63-33422 describes the four acres of field area irrigated from the same point of diversion as that in License 63-7202. 63-33423 describes the 1.5 acres of landscape area associated with 3 homes that is domestic-irrigation from the same points of diversion as that in License 63-11308. **For 63-33423**, the Licensing Review Memo describes that system (memo is contained in that file).

The 7/28/1972 field exam for 63-7202 measured the capacity of the system at 1000 gallons in 67 seconds; total diversion of 2.0 cfs. For this reason, a combined limit of 2.0 cfs was included for 63-33422, and 63-7202. The condition "Combined Limit of 2.0 cfs for 63-33422 and 63-7202," was included on the License. The combined limit was listed in the comments on AdHoc, and both water rights were flagged on the Status & Comb tab on AdHoc to have a combined limit of 2.0 cfs.

POU Overlap

NONE. The POU Overlap Comparison shows 63-2529 Pioneer Irrigation Dist/Wilder, 63-2891 Pioneer Irrigation Dist./Wilder, 63-11308 domestic/commercial/irrigation, and 63-2388 US Dept. of Interior. The 4/6/2010 field exam conducted by Terry Scanlan, SPF Engineering, stated that the ground water is the primary source for irrigation. That Wilder Irrigation District confirmed that the property is considered high ground and cannot receive surface water.

Period of Use

3/1 – 11/15 (same as on Permit)

Water District

Administrative Area shows District 63.

RECOMMENDATION (63-33422):**Capacity of Well and Measurement**

During the 7/28/1972 Field Exam conducted by IDWR for 63-7202, 1000 gallons in 67 seconds was measured (2.0 cfs capacity of well).

Diversion Rate

0.02 cfs X 4.0 acres = 0.08 cfs for the additional 4.0 acres.
Combined limit of 2.0 cfs for 63-7202 and 63-33422.

Volume (4.5 af/acre)

Vir = 4.5 X 4.0 acres = 18.0 af

Vdr = 2.0 cfs X 260 X 1.9835 = 1031.4 af entire system

Vdr = 0.08 cfs X 260 X 1.9835 = 41.3

Right 63-7202 was licensed for 756.0 afa. The 2.0 cfs is adequate to provide 756.0 afa under 63-7202, and 18 afa under 63-33422.

Condition:

Changed 121 to 103 with Licensing.

Added E60 for 63-7202 and 63-33422 combined limit of 2.0 cfs.

Identification No. _____
Permit No. 63-7202

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

RECEIVED

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

JAN 24 1972 ✓

Department of Water Administration

1. a) Name of Permit Holder Gem State Academy
b) Post Office Address R. R. 8, Caldwell, Idaho 83605
2. Permit Number 63-7202
3. Date of Priority that you are prepared to establish 3-2-69
4. a) Source from which water was appropriated Underground water
b) Location of the point of diversion: SW 1/4 SW 1/4, Section 10
Township 3N, Range 3W, Boise Meridian, Other points of diversion:
SW 1/4 SW 1/4, Sec. 10 3N, 3W
5. a) The amount of water and use to which the water has been applied:
amount 2 cfs for irrigation purposes from March 20 to Nov. 1 incl.
(cfs and/or acre feet per annum) (Month-Day) (Month-Day)
amount .40 cfs for domestic purposes from Jan. 1 to Dec. 31 incl.
(cfs and/or acre feet per annum) (Month-Day) (Month-Day)
amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre feet per annum) (Month-Day) (Month-Day)
b) Total amount appropriated 2.4 cfs cfs and/or acre feet per annum
c) Describe how and by whom measurement of rate of flow or amount of storage was made and the qualifications of the person making the measurement: Layne Pumps test pumped well at 1000 GPM and 1500 GPM.
6. If the means of diversion and conveyance are owned by someone other than the Permit Holder:
a) Give the name or description of the canal, ditch or other works by which the water is conducted to the place of use: _____
b) Describe the agreement or understanding by which you take water from the works: _____
7. a) Briefly describe the works for diverting and conveying the water to the place of use, (If from a subterranean source, give the pump size, motor size, size of well casing, depth of well; if from surface water, give brief description of diversion structure and/or canal or ditch) 100 H.P. motor and pump to maintain for irrigation by sprinklers and flood.
b) Describe the type and size of measuring device which you have installed at your point of diversion: 8" Badger irrigation meter
c) Give well drillers name and address and date the well was completed Pete Cope
Cope Drilling Company, #2
Box 1196, Idaho Falls, Idaho

63 7202

DATE OF EXAM 12 July 72

ACREAGE
Found 168
Recommended 168

Irrigation Requirement 4.5 Ac Ft/Ac

USE
Irrigation Q = 2.0 c.f.s. V = 756.0 AF/Ann. from Mar 15 to Nov 15
Domestic Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Livestock Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____

Is water co-mingled? yes _____ no X

Name source: Groundwater
Twp. 3 N/S, Rge. 3 E/W, B.M., Sec. 10, Sub. SW 1/4 SW 1/4 Canyon County

Exchange? yes _____ no _____

Name source exchanged with: _____
Twp. _____ N/S, Rge. _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County

Point of Injection:
Twp. _____ N/S, Rge. _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County

Point of exchange:
Twp. _____ N/S, Rge. _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County

Total Q measured 2.0 cfs Method of measurement Badger Meter

Total Q recommended 2.0 cfs Meter No. _____ Type _____ Condition _____

Total V recommended 756.0 AcFt/Ann

Recommended Amendments:

P.D. _____
Place of Use _____
Other _____
None

MEASUREMENT CALCULATION:

Installed Badger Meter 1000 gals in 67 secs
Q = 2.0 cfs
V = (4.5 x 168) = 756.0
168
A = 168 ACRES

SYSTEM DESCRIPTION:

GE Motor 100 HP 230/460 Volt 1770 RPM 60 cycle 3 phase
Ser # CGJ317114 Layne & Bowler Pump Ser # 44829
3" discharge through Butterfly type valve + check valve
Some land under sprinklers some gravity irrigation

REMARKS:

Only 1 well - domestic well covered!

Examiner's Signature James Barber Date 28 July 72

Checked by _____ Date _____

Approved by _____ Date _____

State of Idaho
Department of Water Administration

LICENSE OF WATER RIGHT

License of Water Right No. 63-7202 Priority March 2, 1969 Amount 2.0 cfs

THIS IS TO CERTIFY, that GEM STATE ACADEMY
of Caldwell, Idaho, has complied with the terms and conditions of Permit
No. 63-7202 issued pursuant to Application for Permit dated March 2, 1969,
and has submitted proof to the Department of Water Administration on January 24, 1972,
that he has applied water to a beneficial use; an examination by the Department indicates that the
works have a capacity of 2.0 cfs, and that the water has in fact been applied to a
beneficial use; a right to the use of water from a ground water source
tributary of _____, is hereby confirmed in the following amounts:

Amount 2.0 cfs for Irrigation from March 20 to Nov. 1 (both dates inclusive)

Amount _____ for _____ from _____ to _____ (both dates inclusive)

Amount _____ for _____ from _____ to _____ (both dates inclusive)

Subject, however, to the condition that no more than 2.0 cfs of water be diverted at
any one time, said waters to be diverted within the _____

SW 1/4 Sec. 10, Twp. 3 N, Rge. 3 W, B.M.
in the county of Canyon and that the amount of water so diverted and to which such
right is entitled and confirmed is for the purposes aforesaid and is limited to the amount which can
actually be beneficially used and shall not exceed 756 acre feet per year or
4.5 acre feet per acre.

Description and location of place of use:

TWP.	RANGE	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3 N	3 W	10									35	32	15					82	
		15			36		30	15		5								86	

Total number of acres irrigated 168

A measuring device of a type approved by this Department shall be permanently
maintained as part of the diverting works.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands
or place of use herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 3 day of
October, 19 73.


Director

63 7202

Check Administrative Area Results

Click On Item For More Information

Headgate Requirement 4.5
Consumptive Use 3.5
DEQ Nitrate Priority Lower Boise/Canyon County
Irrigation Company BOISE PROJECT BOARD OF CONTROL
Irrigation Company WILDER IRRIGATION DISTRICT
msL_upstream
Source Water Plumes GEM STATE ACADEMY
Source Water Plumes VALLIVUE MIDDLE SCHOOL
Source Water Plumes SOMERSET WEST WATER CORP
Administrative Basin 63
Water District 63 - Boise River